

Serial No.: 10/675,585
Group Art Unit: 2644
Examiner: Daniel Swerdlow

In the Claims

1-16. (Canceled)

17. (Original) A method for enabling a digital loop carrier to operate as a next generation gateway, comprising:

providing one or more telephony bearer resources in the digital loop carrier; receiving line identification information specifying connectable end points in digital loop carrier, the connectable end points including the one or more telephony bearer resources;

receiving action information specifying one or more actions to be taken by the loop carrier with respect to the connectable end points specified by the line identification information;

generating a message that includes the line identification information and the information; and

sending the generated message to the digital loop carrier.

18. (Original) The method of claim 17, wherein providing one or more telephony resources includes:

providing telephony resources for tone detection and generation.

19. (Original) The method of claim 18, wherein providing telephony resources for tone detection and generation includes:

providing telephony resources for detecting and generating pulse dialing, multi-frequency tones and dual tone multi-frequency tones.

20. (Original) The method of claim 18, wherein providing telephony resources for tone detection and generation includes:

providing telephony resources for generating a dial tone, a busy tone, a reorder dual tone multi-frequency tones, multi-frequency tones, and special information tones.

21. (Original) The method of claim 17, wherein providing one or more telephony resources includes:

Serial No.: 10/675,585
Group Art Unit: 2644
Examiner: Daniel Swerdlow

providing telephony resources for bridging multiple voice circuits together in multi-party call.

22. (Original) The method of claim 17, wherein providing one or more telephony resources includes:

providing telephony resources for loop signaling.

23. (Original) The method of claim 22, wherein providing telephony resources for loop signaling includes:

providing resources for performing loop-start, ground-start, loop-reverse battery, and E&M signaling.

24. (Original) The method of claim 17, wherein providing one or more telephony resources includes:

providing frequency-shift-keying modem tones.

25. (Original) The method of claim 24, wherein providing frequency-shift-keying modem tones includes:

providing telephony resources for delivering calling-line-identification information and message waiting indication status changes.

26. (Original) A system for enabling a digital loop carrier to operate as a next generation gateway, the system comprising:

one or more telephony bearer resources configured to be situated in the digital loop carrier; and

an access switch that includes the intelligence to operate the telephony bearer resources and, furthermore, to control the digital loop carrier for telecommunication operations, the access switch being connected to the digital loop carrier and the telephony bearer resources.